Clarke®

WARNING: Do not use the machine without reading this manual

HOT WASHER

MODEL NO: HLS130

PART NO: 7320525

OPERATION & MAINTENANCE INSTRUCTIONS

CE

GC0314

INTRODUCTION

Thank you for purchasing this CLARKE Hot Washer.

The machine has been designed to use hot or cold water to clean any surfaces which can stand the force of the high pressure water jet and the action of the detergents used.

The machine must only be used for the purpose for which it was designed.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

LIST OF CONTENTS

The following items should be supplied in the carton. If any parts are missing or damaged, please see your Clarke dealer where you purchased the machine.

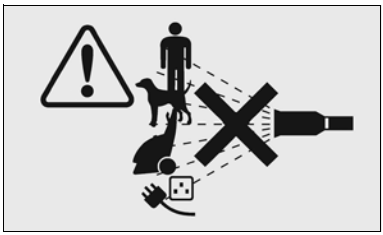
1 x Hot Washer
1 x High Pressure Hose
1 x Spray Gun Assembly
1 x Lance Assembly
1 x Operating & Maintenance Manual

GENERAL SAFETY RULES

WARNING: WATER AT HIGH PRESSURE CAN BE DANGEROUS AND CAN CAUSE DAMAGE IF THE OPERATOR IS CARELESS. NEVER ALLOW ANYONE TO OPERATE THIS MACHINE UNLESS THEY ARE FAMILIAR WITH THE SAFETY PRECAUTIONS.

1. **WARNING:** High pressure water jets can be dangerous if subject to misuse. They must not be directed at animals or people in order to clean clothes.
2. **WARNING**: Never allow children or untrained personnel to use this product.
3. **NEVER** operate the pressure washer with any of the covers removed.
4. **NEVER** attempt any electrical or mechanical repairs to this pressure washer. Always refer to your Clarke dealer.
5. **NEVER** supply any liquid other than water to the water inlet.
6. **WARNING**: Never use the detergent facility to introduce flammable liquids/solvents, e.g. paint thinners, petrol, oil due to risk of explosion.
7. **ALWAYS** release any residual pressure in the machine by turning off the water supply and operating the trigger, before disconnecting the hose.
8. **ALWAYS** keep the pressure washer itself dry and clear of water spray.
9. **WARNING**: Never direct the spray jet at the pressure washer itself or any other electrical equipment.
10. **ALWAYS** wear protective clothing, safety shoes and safety glasses. Loose particles & other debris may be propelled at high speed by the water jet.
11. **ALWAYS** hold the spray gun firmly & expect the gun to 'kick' when starting.
12. **WARNING**: Only use chemical cleaning agents (detergents), that are approved for pressure washers. CLARKE Traffic Film Remover or CLARKE Wash and WAX (available from your dealer), are recommended.
13. **WARNING**: Always disconnect from the electrical power supply and remove the plug from the socket before carrying out user maintenance.
14. **ONLY** use original spare parts from the Clarke service department.
15. **WARNING**: High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
16. **NEVER** use the pressure washer if a power cable or important parts of the pressure washer are damaged.
17. Use only clean Diesel Oil. NEVER use gasoline, kerosene, paint thinners, alcohol or other highly flammable fuels.
18. **WARNING**: If an extension cable is used, the cable/plug must be fully watertight. Inadequate extension cables can be dangerous.

SAFETY SYMBOLS

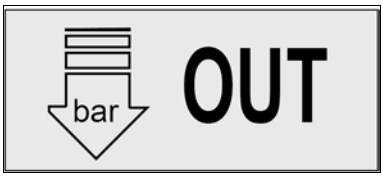


WARNING: Do not discharge the water spray at persons or animals. Keep clear of nozzle.

WARNING: Never direct spray toward any electrical device or electrical outlet.

WARNING: Risk of hot surfaces. Avoid hot exhaust components. Don't allow hoses to contact the exhaust exit during or after use.

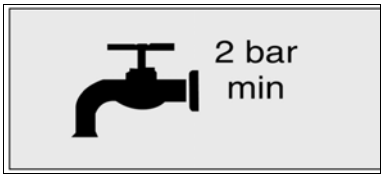
Fuel Tank



High Pressure Water Outlet

Total Stop System

Detergent Tank



Water Input

ELECTRICAL CONNECTIONS

WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 1ph 50Hz. Connecting it to any other power source may cause damage.

Connect the mains lead to a suitably fused 230V, 1 phase electrical supply via a 16 Amp industrial 3-pin connector (to BSEN 60309-1/2).

IMPORTANT: A domestic 13Amp plug MUST NOT be fitted to this appliance.

The electrical supply connection shall be made by a suitably qualified electrician and comply with IEC 60364-1.

As the colours of the wires in the power cable of this product may not correspond with the markings on the terminals of your plug, proceed as follows.

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L**.
- The wire which is coloured **Yellow and Green** must be connected to the terminal which is marked **E** or ⏚ or coloured **Green**.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

FUSE RATING

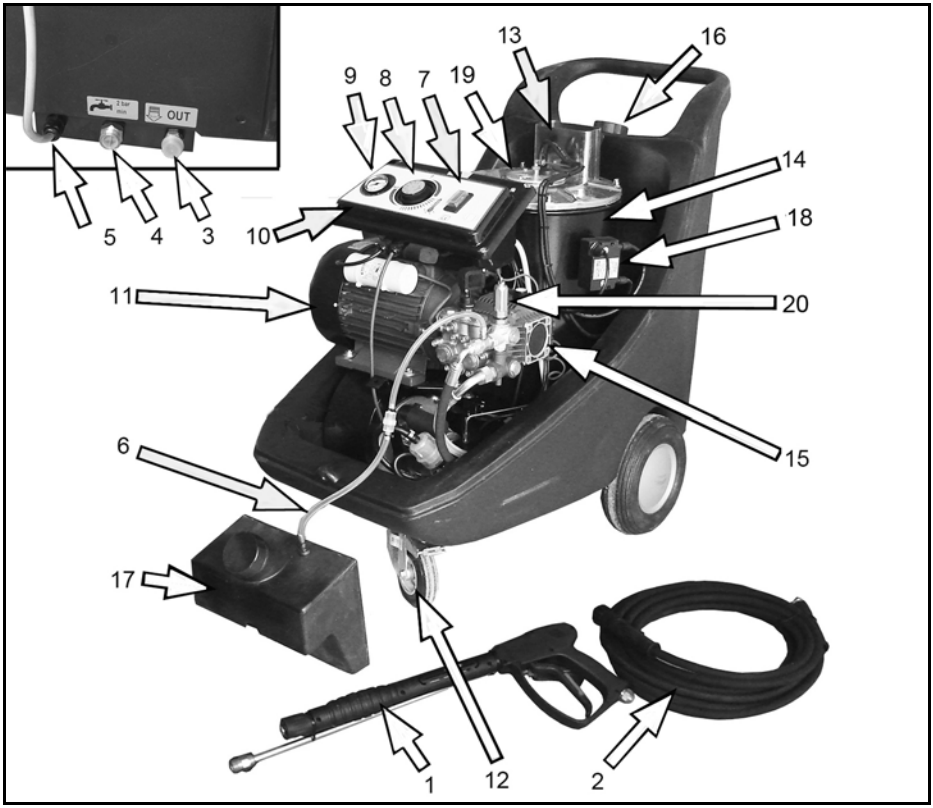
The fuse rating for this pressure washer is 16Amps.

EXTENSION CABLES

If an extension cable is used, always ensure it is fully unwound. When used outdoors, ensure that the extension cable is specifically designed for outdoor use. Ensure that the cable is rated for the voltage and amperage of the machine.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

PARTS IDENTIFICATION



1	Spray Gun and Lance	11	Electric Motor
2	High Pressure Hose	12	Braked Castor
3	Water Outlet	13	Exhaust
4	Water Inlet	14	Boiler
5	Power Cable	15	High Pressure Pump
6	Detergent Pickup Hose	16	Fuel Tank Filler Cap
7	On/OFF Switch	17	Detergent Tank
8	Temperature Regulator	18	Transformer
9	Pressure Gauge	19	Burner Head
10	Control Panel	20	By-pass Valve

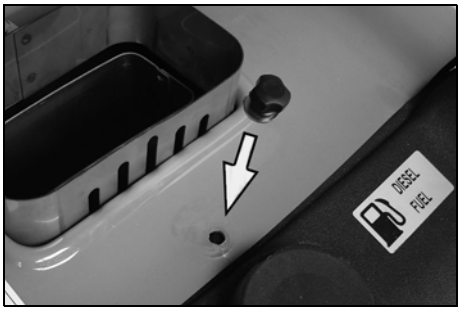
BEFORE USE

CHECKING THE OIL

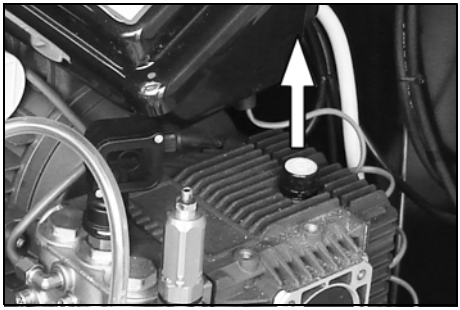
WARNING: TO CARRY OUT THIS CHECK, PLACE THE PRESSURE WASHER ON LEVEL GROUND WHILE SWITCHED OFF.

WARNING: TAKE CARE NOT TO TOUCH ANY HOT PARTS WHEN CHECKING THE OIL LEVEL.

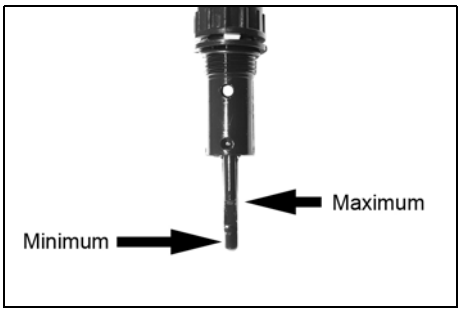
1. Remove the cover from the pressure washer by removing the securing thumbscrew from the front and then the rear of the cover then lifting it off.



2. Turn the oil filler cap anticlockwise to remove it from the pump and wipe the integral dipstick with a clean cloth.



3. Insert the oil filler cap fully back into place and then remove it again.
4. If the oil is near the low mark on the dipstick, add oil to the oil reservoir.
   - Do not overfill the oil reservoir.
   - We recommend the use of SAE30 oil.
   - Do not mix grades of oil as this may effect the machine's performance.



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

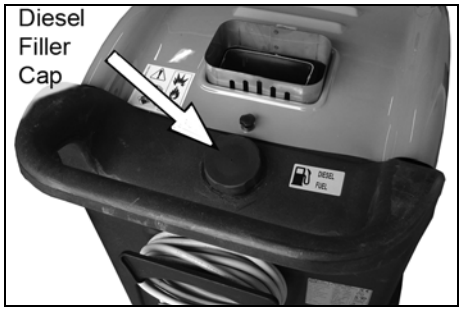
5. Replace the oil filler cap.
6. Replace the cover and tighten the securing screws

CAUTION: RUNNING THE PUMP WITH INSUFFICIENT OIL WILL CAUSE DAMAGE

FILLING WITH FUEL

- Refuel in a well-ventilated area.
- Do not leave fuel within the reach of children.
- Refuel carefully to avoid spillages.

1. Remove the diesel filler cap and fill the tank with diesel fuel.
   - Maximum 22 litres.
2. Replace the diesel filler cap securely.



WARNING: INCORRECT FUELS MUST NOT BE USED AS THEY MAY PROVE HAZARDOUS.

FILLING WITH DETERGENT

If you intend to use the detergent injection facility:

1. Unscrew the Detergent Filler Cap located at the front of the machine and fill with detergent.
   - Only use detergents recommended for use with pressure washers, such as CLARKE Traffic Film Remover which is a powerful 'low foaming' agent for car cleaning, patio cleaning etc., or CLARKE Wash & Wax, both available from your CLARKE dealer. The use of unsuitable cleaning agents may adversely affect the safety of the machine. Do not exceed the correct operating temperature.

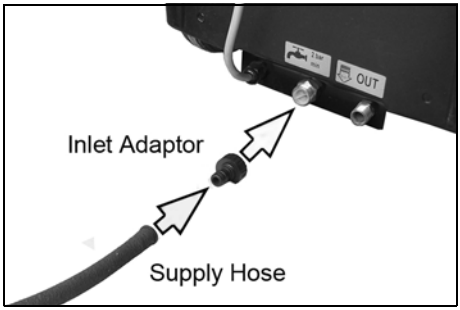
CONNECTING THE MAINS WATER SUPPLY

The pressure washer must never be connected to the drinking water supply without using a system separator (also known as a backflow preventer) available from most hardware stores.

Always follow the regulations of your local water supplier.

CAUTION: WATER THAT HAS FLOWED THROUGH A SYSTEM SEPARATOR IS CONSIDERED NON-DRINKABLE.

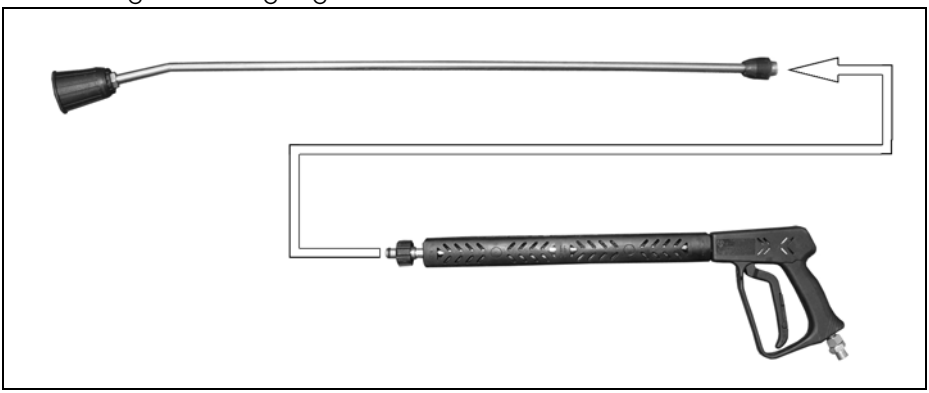
1. Connect the water supply hose to the inlet adaptor supplied with the machine. A standard proprietary hose is suitable.
2. Screw the inlet adaptor to the water inlet as shown.
   - It is recommended to use a reinforced hose having an inner diameter of at least 10 mm.



- The water supply must be able to deliver at least 15 l/min and have a max inlet temperature of 65°C.

ASSEMBLING THE LANCE

1. Connect the spray lance to the gun assembly and tighten securely by turning the locking ring.

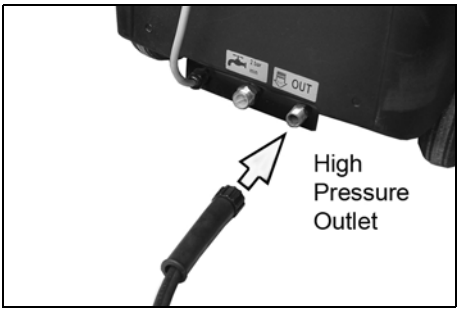


CONNECTING THE HIGH PRESSURE HOSE

1. Screw the high pressure hose onto the gun assembly.
2. Use a spanner to tighten the connector.

3. Screw the other end of the hose on to the pressure washer outlet.
    - Tighten the connector hand tight only;- do not use a spanner.

NOTE: Make sure the connections are secure.



PARKING BRAKE

Before you operate your pressure washer you should make sure that the parking brake is engaged.

To do this press the brake flap shown in the picture against the wheel to engage the parking brake.

Flip the flap upwards to release the brake and allow you to move the pressure washer.

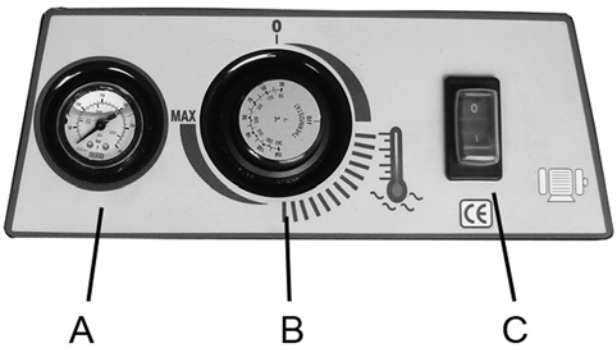
OPERATION

1. The pressure washer should always be located on a firm level surface where it is not exposed to extreme weather conditions such as strong wind, freezing or rain.
2. It is recommended that where possible a partition be erected between the wash area and the pressure washer to prevent accidental spraying of the pressure washer. Moisture entering the machine may cause damage.

WARNING: DO NOT OPERATE THE PRESSURE WASHER INDOORS, OR IN ENCLOSED AREAS WITHOUT ADEQUATE VENTILATION, OR IN AREAS WHERE FLAMMABLE VAPOURS (PETROL, SOLVENTS ETC.) MAY BE PRESENT.

WARNING: IF THE PRESSURE WASHER IS TO BE USED IN AN ENCLOSED AREA THE BURNER EXHAUST MUST BE VENTED TO THE OUTSIDE ATMOSPHERE. THE USE OF A DRAFT REGULATOR IS RECOMMENDED. ALL VENTING MUST BE IN ACCORDANCE WITH APPLICABLE LAWS AND LOCAL ORDINANCES FOR SUCH INSTALLATIONS.

CONTROL PANEL



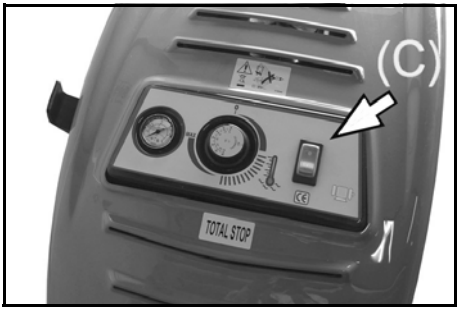
A	Pressure Gauge	Displays hot water pressure
B	Temperature regulator (from 30°C to 150 °C.)	Selects water temperature.
C	ON/OFF Switch	Turns machine On/Off.

GETTING STARTED

1. Ensure that the water supply is correctly connected and turned on.

WARNING: FAILURE TO TURN ON THE WATER FULLY COULD CAUSE DAMAGE TO THE PRESSURE WASHER.

2. Set the start switch (C) to 'I'.
3. Release the trigger lock.
4. When using the machine for the first time, let it run for a few moments without the nozzle so that any air bubbles or other impurities are discharged.
5. Then re-fit the nozzle. pull the trigger for a few seconds to discharge any air contained in the hose.



NOTE: When the trigger is pulled the pressure of water will cause the lance/gun assembly to kick back suddenly.

6. The washer incorporates a total stop system. When the trigger is released the motor will stop. This system is designed to protect the motor and is also an important safety feature.

USING THE WASHER AT DIFFERENT TEMPERATURES

WARNING: THE BURNER EXHAUST MUST BE VENTED TO THE OUTSIDE ATMOSPHERE. ALL VENTING MUST BE IN ACCORDANCE WITH APPLICABLE LAWS AND LOCAL ORDINANCES FOR SUCH INSTALLATIONS.

1. Set the Temperature Selector (B) to the required temperature.
2. Set the start switch (C) to 'I'.
3. Ensuring that you have a firm footing and that you are also holding the gun and spray lance firmly, pull the trigger on the gun to start water flow.
   - The lance and gun will kick back when the trigger is first pulled.

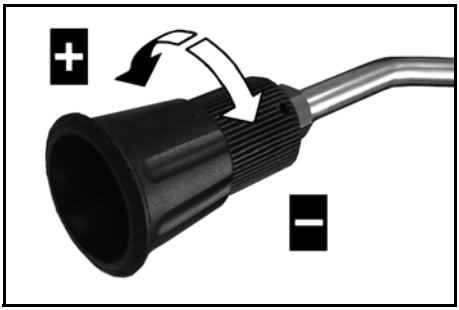
- If heating of the water is required, the burner will light up to produce hot water at the required temperature.
- The pressure washer is now ready for use.
- The machine should always be attended during hot wash operation.

4. Having used the pressure washer with hot water, set the temperature selector to the minimum temperature and allow it to run with cold water for a few moments before switching off.
5. At the end of the working session, switch off at the start switch (C) and by pulling the trigger, to allow any residual pressure to be released.

USING DETERGENT

WARNING: IF OPERATING THE MACHINE WITH DETERGENT INCLUDING CLARKE CLEANING PRODUCTS, TAKE CARE NOT TO SET THE MACHINE TO OPERATING TEMPERATURES OF GREATER THAN 100°C.

The detergent is applied by twisting the cap on the lance as shown to produce a wider spray pattern with lower pressure, and then pulling the trigger on the gun.

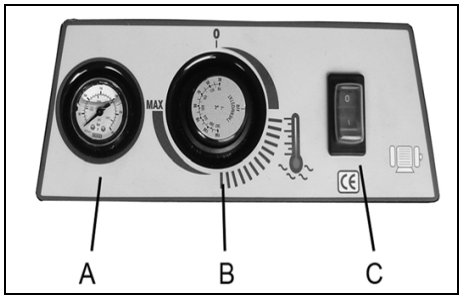


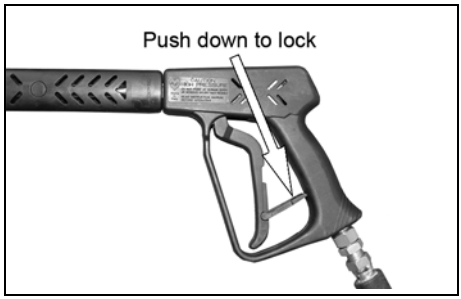
When the nozzle is adjusted to a high pressure and a narrow spray pattern, the detergent flow is halted.

CAUTION: IF YOUR EYES COME INTO CONTACT WITH ANY CLEANING FLUIDS, RINSE THEM IMMEDIATELY WITH PLENTY OF FRESH CLEAN WATER AND SEEK MEDICAL ADVICE IF REQUIRED.

AFTER USE

1. Set the start switch (C) to 'O'.
2. Turn the water supply off at the tap.
   - NEVER turn the water off with the pressure washer running.
3. Release the pressure in the pump and hose by squeezing the trigger for a few seconds until no more water comes out of the nozzle.
4. Move the trigger lock to the locked position.
5. Store the pressure washer in a dry safe place to prevent unauthorised persons from using it.





MAINTENANCE

- All repairs and maintenance operations must be carried out by technically qualified personnel.
- All maintenance operations must be carried out with the machine on a level floor while disconnected from the power and water supplies.
- Correct use and maintenance is necessary to guarantee the pressure washer's reliability and best performance.
- The pressure washer requires regular checks to be carried out at the following intervals. Please only use the correct spare parts as supplied by your Clarke dealer.

DAILY (BEFORE EACH USE)

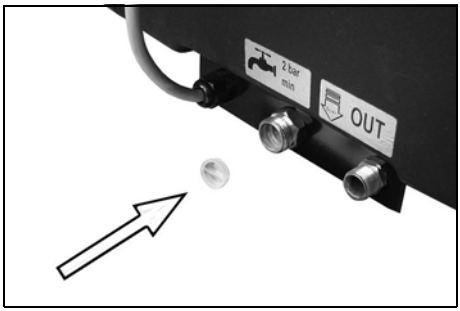
CHECK THE OIL LEVEL OF THE PUMP

1. See "Checking the oil" on page 7.
2. Check that the power cable is not damaged.

EVERY 2 WEEKS OR AFTER 50 HOURS WORKING

CLEAN THE WATER FILTER

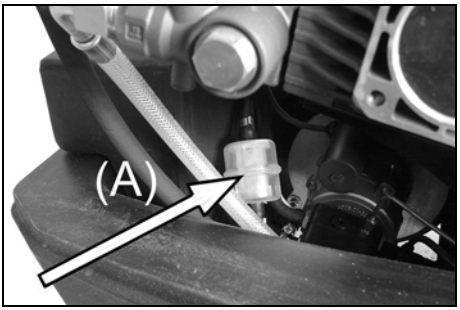
1. Use a pair of square nosed pliers, pull out the inlet water filter located in the water inlet and clean out any foreign matter.



EVERY 3 MONTHS OR AFTER 300 HOURS OF WORK

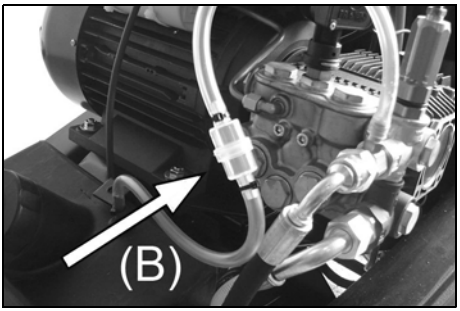
CLEANING/REPLACING THE FUEL FILTER

1. Remove the cover from the pressure washer.
2. Remove & replace the fuel filter (A).



3. Clean or replace the detergent filter (B).

If dirty, either clean with a jet of compressed air or replace it with a new filter.



SERVICING

These tasks must be carried out by skilled service personnel.

EVERY MONTH OR AFTER 100 HOURS OF OPERATION

CLEANING THE COMBUSTION HEAD & CHECKING THE ELECTRODES

It is recommended that the burner and electrodes be serviced yearly, or as needed depending upon the pressure washers' usage.

Please contact the CLARKE International Service Dept.

LIMESCALE

Periodically the heating coil should be checked for limescale buildup, dependant upon the hardness of the local water supply.

Please contact the CLARKE International Service Dept.

SOOT BUILD UP

Poor grades of fuel oil or inadequate combustion will cause heavy build up of soot on the heating coil. This deposit will insulate the coil and

reduce its efficiency. It will also restrict air flow through the coil, further aggravating the soot build up.

Contact your CLARKE dealer or CLARKE International Service Dept on: 020 8988 7400 if de-sooting is required.

DE-COMMISSIONING PRODUCT

Should the product become completely unserviceable and require disposal, draw off the oil into an approved container and dispose of the product and the oil according to local regulations.

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

CONSUMABLES ETC

A range of suitable hoses, shampoo and traffic film remover are available from your Clarke dealer.

TROUBLESHOOTING

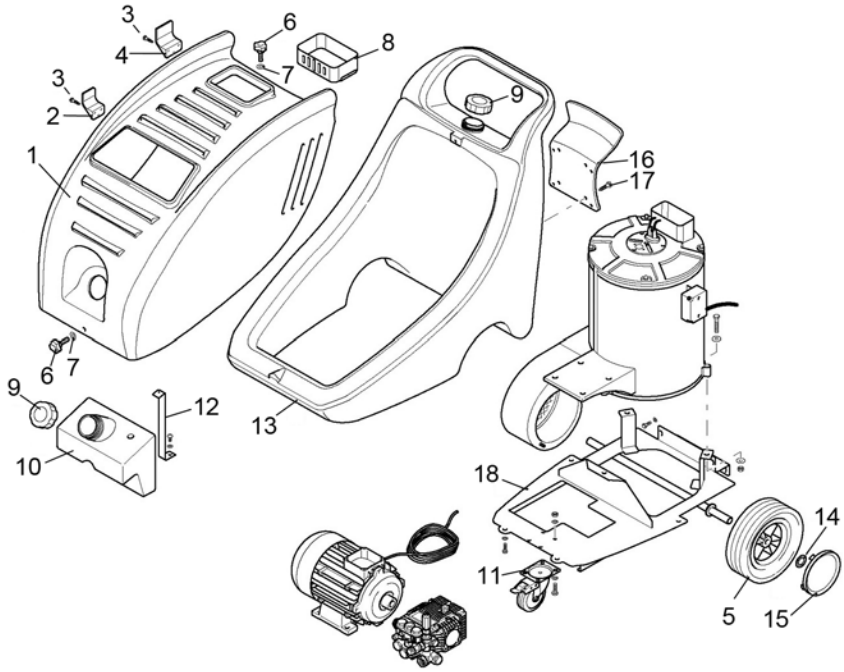
PROBLEM	POSSIBLE CAUSE	SOLUTION
No water delivery.	Water filter blocked.	See "Clean the water filter" on page 15.
	Pump valves jammed.	Contact Clarke Service Department.
	Clogged lance nozzle.	Clean the nozzle.
Low or irregular pressure	Insufficient water supply.	Check connections.
	Pump taking in air.	Check connections.
	Detergent valve sucking in air.	Check connections and that detergent supply is toppedup
	Water filter dirty.	Clean or replace.
	Worn out gaskets or valve components.	Contact Clarke Service Department for replacement.
	Exceeding the inlet water temperature.	Make sure the water supply is below 65 degrees.
	Damaged or warn out nozzle components.	Contact Clarke Service Department for replacement
	Coil is covered in limescale.	Contact Clarke Service Department for advice on de-scaling.
The burner does not turn on.	Dirty burner nozzle.	Contact Clarke Service Department.
	Faulty thermostat.	Contact Clarke Service Department.
	Broken/blocked actuated valve.	Contact Clarke Service Department.
	Dirty fuel filter.	Clean or replace as shown on page16.
	Insufficient spark at the electrodes.	Contact Clarke Service Department.
	Worn out pump mechanism.	Contact Clarke Service Department.
	Low Voltage.	Make sure the pressure washer is connected to a suitable power supply.

Machine is noisy.	Air intake worn out / dirty/ blocked valves. Excess water temperature.	Check air inlet. Contact Clarke Service Department. Reduce water temperature.
Water in the oil.	Worn out piston rings/failed gaskets.	Contact Clarke Service Department.
Oil leaking from the head.	Worn out o-rings or gaskets.	Contact Clarke Service Department.
Motor suddenly stops.	Thermal protection has activated due to overheating.	Switch off the machine and wait until the unit has cooled down sufficiently.

PRODUCT SPECIFICATIONS

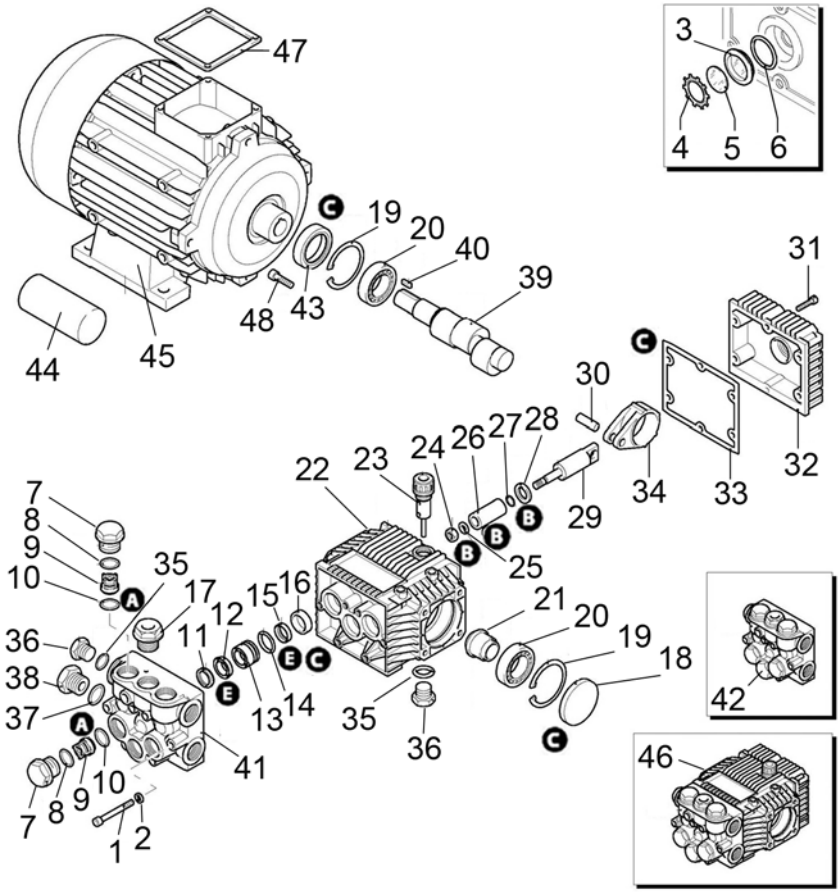
Model Number	HLS130
Part Number	7320525
Voltage	230 V / 50 Hz / 1 Phase
Motor Input Power	3.1 kw
Motor Input Current	14.3 A
Duty Cycle	S1 (continuous)
Max Inlet Water Pressure	2.5 Bar
Working pressure	125 Bar / 1813 PSI
Maximum output pressure	130 Bar / 1885 PSI
Maximum output flow rate	600 Litres / hour
Maximum output temperature	150^{O}C
Maximum input temperature	65^{O}C
Fuel tank capacity	22 Litres
Detergent tank capacity	4 Litres
Sound power level (L_{WA})	93 dB
Guaranteed sound power level (L_{WA})	94 dB
Vibration	1.23 m/s^2
Uncertainty Factor	1.5 m/s^2
Dimensions (L x W x H)	1000 x 570 x 820 mm
Weight	97.5 kg

PARTS LIST - FRAME & BODY



POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Machine Cover	AR3160731	10	Detergent Tank	AR3163900
2	Front Hose Carrier	AR3160100	11	Braked Caster	AR3164410
3	Screw	AR2100300	12	Bracket	AR3163910
4	Rear Hose Carrier	AR3160110	13	Fuel Tank	AR3161550
5	Wheel	AR3164380	14	Wheel Retaining Clip	AR3162010
6	Securing Knob	AR3163890	15	Hub Cover	AR3161940
7	Washer	AR3163290	16	Power Cable Carrier	AR3160090
8	Exhaust Guard	AR3163880	17	Screw	AR2360360
9	Detergent Filler Cap	AR3161920	18	Chassis Frame	AR3160710

PARTS LIST - WATER PUMP ASSEMBLY

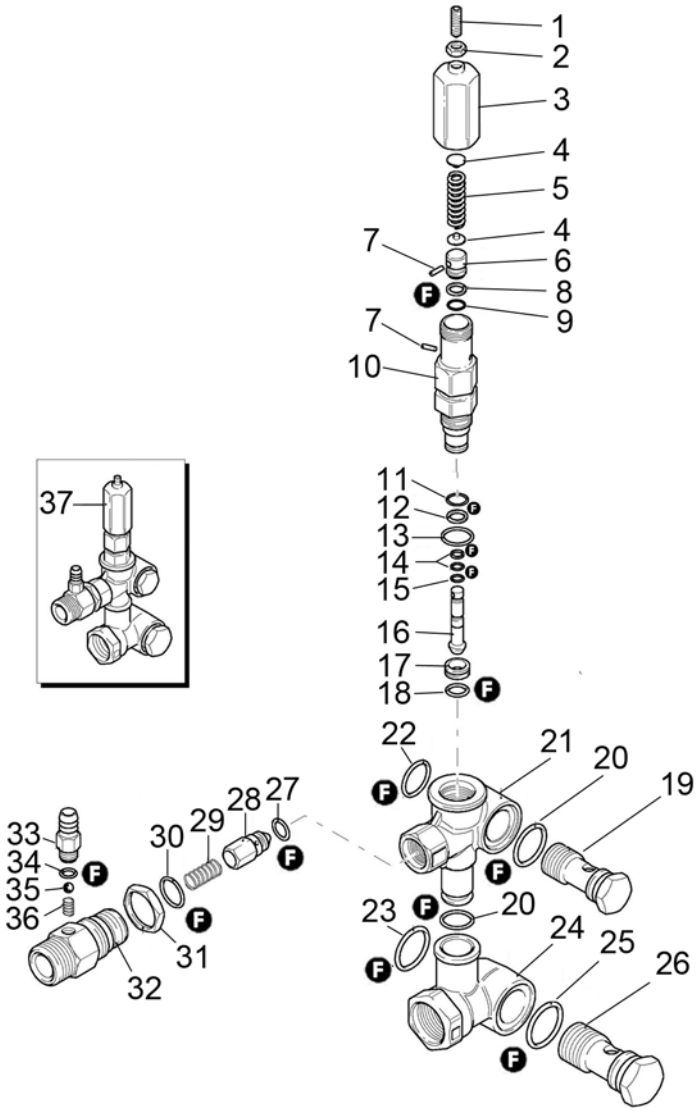


Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

PARTS LIST - WATER PUMP ASSEMBLY

POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Bolt	AR680570	27	O-ring	AR480480
2	Washer	AR1381550	28	Plate	AR1260091
3	Oil Level Glass	AR1260250	29	Piston	AR1260070
4	Securing Ring	AR1260430	30	Pin	AR1260080
5	Plate	AR1780690	31	Screw	AR1260750
6	O-Ring	AR1140450	32	Cover	AR1329010
7	Plug	AR1260162	33	Oil Gasket Seal	AR1329010
8	O-ring	AR960160	34	Connecting Rod	AR1320140
9	Complete Valve	AR1269050	35	O-ring	AR740290
10	O-ring	AR880830	36	Plug	AR1980740
11	Ring	AR1320340	37	O-ring	AR180101
12	Water Seal	AR178020	38	Plug	AR1980740
13	Piston Guide	AR1320351	39	Pump Cam Shaft	AR1322780
14	O-ring	AR1260420	40	Key	AR1380520
15	Water Seal	AR1260450	41	Pump Head	AR1230020
16	Oil Seal	AR1260460	42	Head Assembly	AR1269299
17	Plug	AR1260164	43	Sealing Ring	AR1260750
18	Oil Seal	AR1266740	44	Capacitor	AR51230
19	Circlip	AR1260790	45	Pump Motor	AR44272
20	Bearing	AR1320370	46	Pump Assembly	AR20566
21	Bushing	AR1320330	47	Gasket	AR50068
22	Pump Body	AR1320010	48	Screw	AR1200430
23	Plug	AR880130	A	Valve Overhaul Kit	AR1864
24	Nut	AR1260110	B	Piston Overhaul Kit	AR2629
25	Washer	AR1260100	C	Oil Seal Kit	AR1872
26	Piston	AR1260210	E	Water Seal Kit	AR42479

PARTS DIAGRAM - VALVE ASSEMBLY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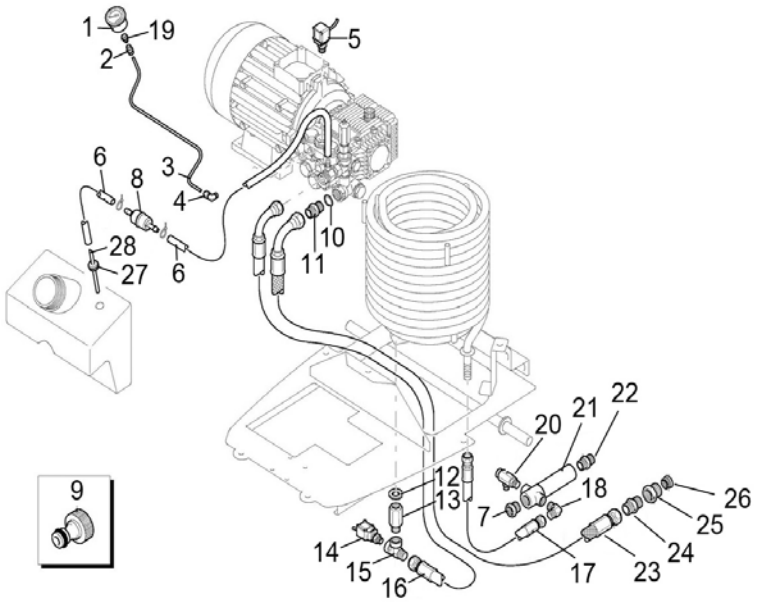
PARTS DIAGRAM - VALVE ASSEMBLY

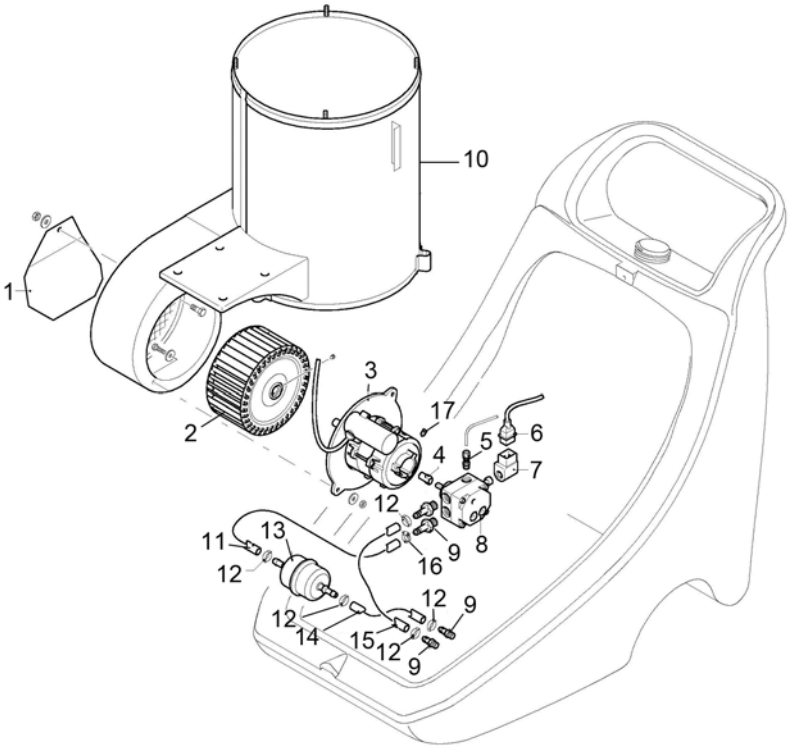
POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Screw	AR1540560	20	O-ring	AR390080
2	Nut	AR1980470	21	Valve Body	AR1540510
3	Insert	AR1980390	22	O-ring	AR1140450
4	Wobble Plate	AR1980220	23	O-ring	AR1540630
5	Spring	AR1271070	24	Suction Fitting	AR1540280
6	Piston	AR1080041	25	O-ring	AR880270
7	Pin	AR1080070	26	Connector	AR2260420
8	O-Ring	AR1080401	27	O-ring	AR1460430
9	O-ring	AR1080250	28	Shutter Fitting	AR1540170
10	Piston Guide	AR1980210	29	Spring	AR1080090
11	O-ring	AR740290	30	O-ring	AR394280
12	O-ring	AR800560	31	Nut	AR1540300
13	O-ring	AR880830	32	Fitting	AR1540170
14	Ring	AR1271170	33	Hose Tail Fitting	AR1560490
15	O-ring	AR1080190	34	O-ring	AR480480
16	Piston	AR1271160	35	Ball	AR1250280
17	Valve Seat	AR1980200	36	Spring	AR1560520
18	O-ring	AR1470210	37	Valve (Complete)	AR23030
19	Connector	AR1540270	F	Gasket/O-ring Set	AR2812

PARTS DIAGRAM - CONNECTING HOSES



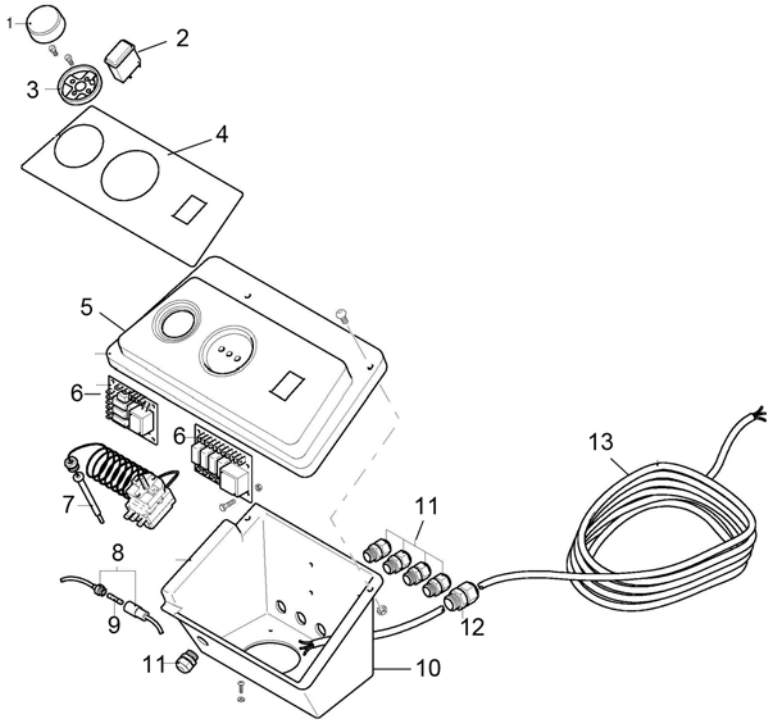
POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Pressure Gauge	AR3161040	15	Fitting	AR3160510
2	Fitting	AR3164070	16	Pump Outlet Pipe	AR3164400
3	Pipe	AR3163500	17	Delivery Pipe	AR3161310
4	Fitting	AR3161110	18	Elbow Fitting	AR3161190
5	Pressure Switch	AR3162890	19	Fitting	AR3161260
6	Detergent Hose	AR3163850	20	Valve	AR3160540
7	End Fitting	AR3161210	21	Fitting	AR3161170
8	Detergent Filter	AR3163560	22	Outlet Connector	AR3161150
9	Hose Connector	AR1461470	23	Mains Inlet Pipe	AR3161290
10	O-ring	AR480440	24	Fitting	AR3161180
11	Hose Fitting	AR1540050	25	Inlet Hose Fitting	AR3160480
12	Washer	AR3162040	26	Water Inlet Filter	AR50713
13	Fitting	AR3160430	27	Gland	AR3161050
14	Pressure Switch	AR3161080	28	Pickup Pipe	AR3163840

PARTS DIAGRAM - FAN & FUEL PUMP



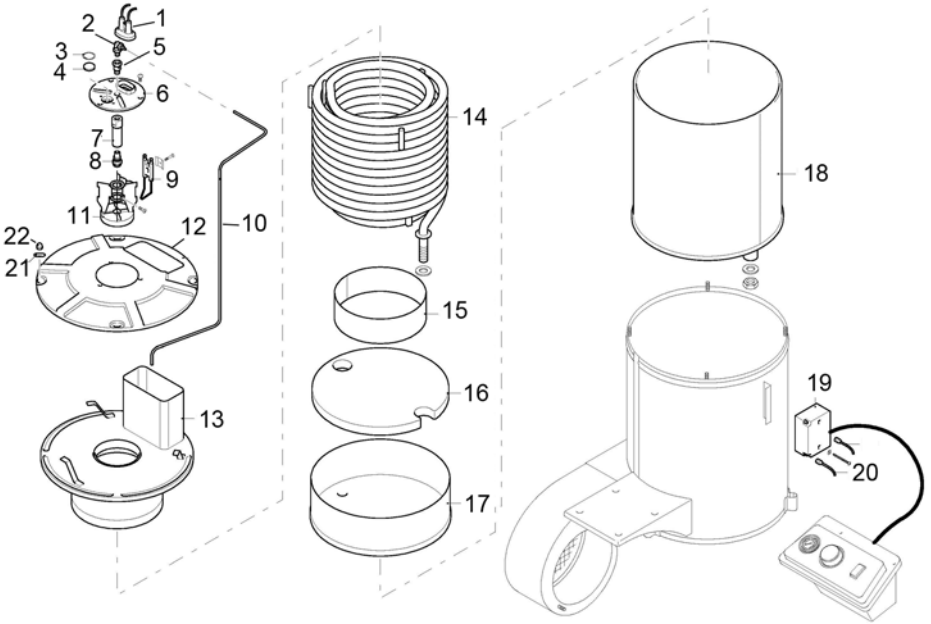
POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Cover Plate	AR3161900	10	Boiler Housing	AR3161460
2	Fan	AR3161810	11	Connecting Pipe	AR3161620
3	Motor Assembly	AR3161530	12	Tubing Clamp	AR3162060
4	Coupling	AR3160300	13	Fuel Filter	AR3161520
5	Fitting	AR3160330	14	Fuel Pickup Pipe	AR3161610
6	Plug-in Cable	AR3161440	15	Fuel Return Pipe	AR3161580
7	Solenoid	AR3160320	16	Pipe Clamp	AR3163920
8	Fuel Pump	AR3162910	17	Screw	AR3163540
9	Hosetail Fitting	AR3160340			

PARTS DIAGRAM - CONTROLS BOX



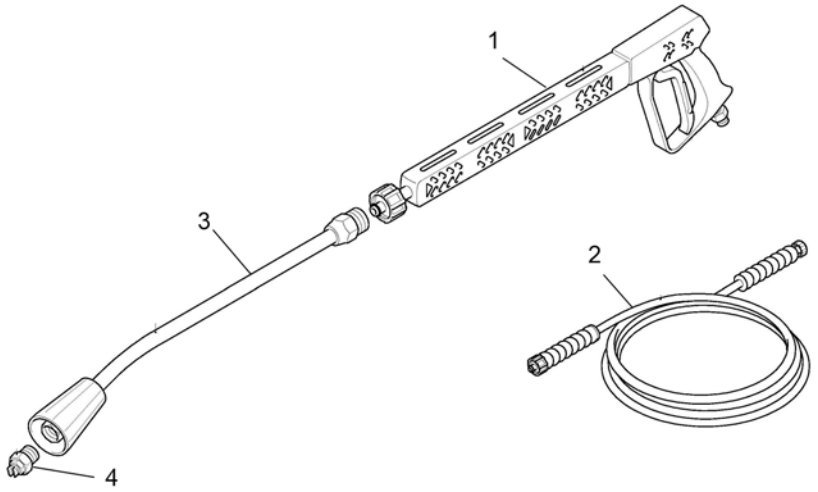
POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Temp Control Knob	AR3161960	7	Thermostat	AR50720
2	On/Off Switch	AR3160850	8	Fuse Holder	AR3163720
3	Control Housing	AR3161990	9	Fuse	AR3160920
4	Display Panel	AR3162080	10	Control Box	AR3160930
5	Cover Plate	AR3160940	11	Cable Gland	AR3160860
6	Board - ALB 012	AR3160900	12	Cable Gland	AR3160870
6	Board - TSP 16	AR3163660	13	Cable	AR3160800

PARTS DIAGRAM - BOILER



POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Cable Protector	AR3162370	12	Top Cover	AR3161790
2	Fitting	AR3161100	13	Cover with Flue	AR3161780
3	O-Ring	AR3162030	14	Coil	AR3161750
4	Glass	AR3161860	15	Support Ring	AR3161430
5	Fitting	AR3161230	16	Bottom Plate	AR3161830
6	Plate	AR3161840	17	Cover	AR3161770
7	Nozzle Holder	AR3161870	18	Boiler Shell	AR3161450
8	Nozzle	AR3162820	19	Danfoss Transformer	AR50717
9	Electrode	AR3161890	20	Transformer Cable	AR3160830
10	Rigid Pipe	AR3161880	21	Washer	AR3163940
11	Burner Support	AR3161560	22	Nut	AR3163960

PARTS DIAGRAM - SPRAY GUN & LANCE



POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Gun	AR41089	3	Lance	AR40826
2	High Pressure Hose	AR3160160	4	Nozzle	AR3082

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We, Clarke International, as the authorised representative of the manufacturer, declare that the following product(s) comply with the directive(s) and standard(s) listed below.

Product Description:	Hot Water Pressure Washer
Model number(s):	HLS130
Serial / batch Number:	N/A
Notified Body:	N/A.....
	.....
	.....
	.....
	.....
Technical Documentation Holder:	A.R. Pond
	Clarke International
	2a Shrubland Road
	London E10,7RB
	UK
Conformity Assessment Procedure:	to 2000/14/EC Annex V
Manufacturer:	European Supplier
Noise Related Value:	600 l/h
Measured Sound Power Level:	86 dB
Guaranteed Sound Power Level:	94 dB

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Directive(s):

2004/108/EC	*Electromagnetic Compatibility Directive.*
2006/42/EC	*Machinery Directive.*
2006/95EC	*Low Voltage Equipment Directive.*
2011/65/EU	*Restriction of Hazardous substances.*
2000/14/EC	*Noise Emissions Directive, (amended by 2005/88/EC).*

Standard (s):

EN 60335-1, EN 60335-2-79, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 60704-1

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2011

Signed:

J.A. Clarke
Director

Date of Issue: 21/02/2013

Place of issue:

Clarke International
Hemnall Street
Epping
Essex, CM16 4LG
England

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